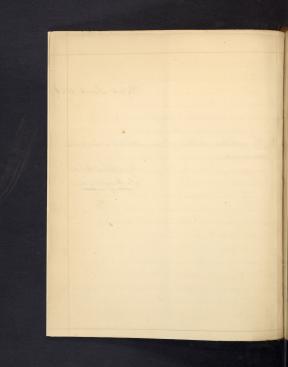
Passed March 1826 An Epay The relative situe of concentrated & compound Medicines By Albert Hiletine of Maryland



An enquiry into the relative sixtue of concentrated and compound medicines;

Ou,

Researches into the comparative power, and offer cary of culain remedial negetable agents in their integral forms and the artine inquedients in a deposite and concentrated thate.

The means that were resorted to by those who first presented to practice medicine, were drived from the negetable kingdom; which has, and still continues to furnish the healing art with agents abundant and varied, at the same time powerful and efficient, and that independent of abstract, in artificial aid.

But we are not limited in this clap of bodies, muly to their natural forms: the extension and improvements in the science of Chymistry, has rendered it, highly prepitious to the capermentalist, and practical chymist to the obtaining a knowledge of their previous and ultimate elements.

Whe collateral aids furnished the medical art

art, by the Second of Chymistry, are inestimables by it, we are taught the experients habituits of different bedies, and Supplied south agents he tolern to be found in the productions of nature. This allegation, is particularly applicable to the means derived from the Mineral him, come It is when this close of the most part over that it corresses a most of ficeent in fluence; and to which for one in the most of free many of which, in the most powerfully and in particular years that almost, if he every indication in the treatment of disease, may be met Jone a more of a mineral the nature.

But in the supertille temporary, the Setelity of Chymistry, in a medicinal survey is not so extensive. It is found to produce the fact of survey have personal about the sufficient action to the sufficient action to make the sufficient action to make the sufficient action to make the survey was and a case the sources demand of the case, to which they are a dapted.

The thirst of innovation, which has shed an in

puteresting character upon the project of Scener, in Medium times, has in dealt resulted in much good when conducted by as generous species of constation; Men have Saught after the hidden beasures of Matures were houst ble thing of the Sake of their own agreement; and the win round benefit of Man kind.

(This trait of character, has marked the alsttor of the medical, as well as other secures; and many of the improvements and discoveries are bullants and describe to be recarded, to the honour, and proportiontion, of this author's peaces.

Among the many improvements unfimedicine,

I shall only protein such as are immediately committee with the subject of have embraced. If this character what is termed, the art of prescription, particle Physicisty of the moon, which the amends properties before Chymishy became inexpensite and paraparated converted with medicine, was only egual and by the complexity of this branch, a part, of secure their prescriptions if we are permitted to infer from

Those, which have desended to at these in most existence, a history enough meetly of vegetable productions; junded to begin without reason, a indication; to hide their ignorance, and impose in the credibility of manhand.

These which have been transmitted to later portraity on account of a specieus celebrity they had acquired, our retained perhaps, man for the Lake of courting desprise, and attends have, then any lettity which they properly but naw probably from a Sacred, a rather Superstitions regard to their artificity. In we are infumed that it has not been many years, Since a famous prescription terms the hear many years, Since a famous prescription terms. Their area Andrews are to the British Pharmacon in preserved the British Pharmacoperson.

We are no life Surprized at the presemption and audacity, with which Withan Chymists have, from a fasticious regard to Chymical affinition, at lamptes to present puls, as they suppose, effectedly needs as for present the presences, and care on the energies of the healing art.

By personaling all such combination, as are chymically incompactable, in Should Juquently be compelled to fings the advantages of permedic, however as wellent experience may have found them to be; and indied which incompactified (the course for rejection) would be the very stance from whereit their teletily is derived.

A medium in all things as a general rule is best. It Should be the object in medicinal combination, both efficinal and esclomporaneous, to unite with the basis, a inquidient of most activity, Such others, as will impart an increased efficacy, "control immoderate a wrong action, at the same time, the most agreable from compatible, should be communicated. To accomplish these purposes, certain principles, well laid down by an eminent Ofrarmacologist, Should be observed, Viz: that the basis, a medicine we look to for the accomplishment of a particular indication, should have in combination, that which gives celerity to its opera -tion, and is properly termed the adjuvans; Secondly the Congens; that which corrects and modifies the operation, Thurdby the constituens, or that which imparts an

agree the former Sons sointifick prescription require Such complicates? This does not compat with the enthusiason, with which chamists, have grasped after the moderand elements of some of one best regelable remodes; to the co-clasion of other parts which they have turned ments

Mother this he a judicious mode of procuring our remieder, let min of experience dicide.

Nature in general, is the best quide, and has made the Most Switable combination in her moderations.

The has proved hearely abundantly compretent to perform for the benefit and preservation of her creatures, in the that arrangement, and combination of the ingrediants, in the above of prepared for their uses, and the air they heart, requires the Same Martin board, of Matinis Chymist, to fulfil the perspects for which it is designed.

We had pretend, to de present the evertime, of Chymisty to remeat the least and millionity of bodies because paties the surprise to have been the least judge, in combining their components in Such projections and hund, as is most suitable to those proposes for which

they are intended - For instance the for and dunk, while daily support us, and the air upon which we depend from existence momentails; may all for the sake of the perfection of chymical Science, be investigated; and have their elements indevedually, a according to accumstances appropriated to the component of men importance.

OA question arrays have whether a not the Sime of Medicine has been benefitte by the zeal with which vegetable permedies have their medicinal elements suggestly and been compelled, in the language of a lete carther with regard to opinus, but which we may extend to a number of others to great their beauty surveys of action.

In reply, no must adout to coparince, for a Satisfartory answery and assertain, whither the power of combatone discore, is invigrated by the Substitution of an elsneut in its pure State, for the Compound.

Object hetical preserving will not decide the question, the nature of disease is to compler and obscure, to be limited by analogical comparisons; to the chymical results of armely which by depeated trials, has deal by to particular southers,

and exerted a certain influence, in particular Modefica-

It count be a legitimate constany that would affer, that a particular element in a compound body, which though operated generally connected with the articles of that bedy, con when departed remains it inerty, it of its sell capable of commanding the dame, or an increased quantum of the identical powers it paper post, when in its nigeral combination. This perhaps would be the inference of hypothesis, but should not be received without the test of experience.

It pense the in accountry of inductions, descend from the market facts as premises, and the hability to ere, when the practical franciscs of the physician are at Make, by an analysy of the above impact; we will deleat on testime. a g Combina. This article has furnished, by Chymical analy-let, various element, to Lewal of which, different chymics. Home constitute their continue for extress, in asserting to the me a other, the time powers of the hards. Deschamps deprived its fellings perfectles, to depend upon the einstead

- mar of line found in that article; and afserts in full faith of fact, that two doses of thirty sin grains each, will cure any intermittent: on the other hand, Westring considered tomin another constituent of bank, to be the active inquedient M. Jeguin attributes all its pirtues, to a principle contained in bank, possessing the property of presentating tamin, and which The mistook for gelotine; and it is said, upon the faith of this blunder, the French, Italian, and German Physdecians, gave their proteents, nothing but clarified glue in intermettent fevers! Falsoni concluded from his experiments, that the felrefuge property, does not belong exertially and individually to the astringent, the better, a any other soluble Substance; Since the quantity of these increase by protracted ebullition, whilst the vertues of the decoction evidently decreaser This only proves, that he was unacquainted with the Chymical changes that occurs, during ebultition -

I Paris from whom, I become the above facts, has autispated me in his permarks upon a set of disandent and opposite of inims, which could not be otherwise, when aujenating in chymical comparisons; and observes that in

in the midst of their difficulties experience interpress it with and dimentions, that the diction of back must depend upon the combination of all its principles. On the firefaction Resumer carefully made, or Sesentifically combined will reject, in of francy, back in the state of pointing come the legerous false, we of third the chyrist pronounces to be event and weekly, many produce its share of benefit by Mostifying the solubility of the ingreducint a by performing time, mechanical duty which we are at fresent weakly to appreciate in

The affects of somewhere, we should be acquainted with the relievable circumstances, and fahrowmen a peculian to them, as presented to the inhabit we something to the the analogy of their there some of information and fahrowment and analogy of their there someway from their something from the infinite something of circumstances, by which they are influenced in facilities as by the projections of they human small field it can be sufficiently the following something to the frequency to the properties of they human something to the influences by the professes and self interested southers.

as to experience in the rificts of the medicinal

elements of regetables, we do not pretend to offer our own, it being very limited. They are by Some held in high restimation. If we look to analogy, for a confirmation of our views whom this subject, we are led to the conclusion, that Substances as Compounded by the hand of nature, are indispensable to the well being of the animal reconomy- & g- Witness the wisdom, manifested in the preparation of aliment, Switted to the sconomy, and constitution, of the different species of animals; how variously the principle of nutrement is Combined, not only as regards its quantity, in relation to the bulk, as in regetable and animal fore; but with perpect to the presence of certain ingreducts, which though popeling in themselves, no mutriment, yet appear in-- dispensable to the heatthy digestion of the animal -

It was singularly enjoyed by Heppocrates, that there is but one food; but there are various forms of food.

The conformation of the dispotent appravating of Some animals, indicates that they should precioe a large buth of food; duch are the Perhansones: and consequently their food has its mutative principle conjunct with mind effect.

Define of the many remain. On hory of the

effete matter these as the carnioneus, have a set of distract agains the capacity and not so pregnous and necessarily receive the aliment, in a men consentrated from

There are lehemes cutain principles which will digettion. Salt is essential to the disertion of animals, lining chiefly in animal food; and a better principle, residual in meet negetables, is as spiritual to herbinorous.

It is known, that this better principle, per forms the part of a natural stimulant only; for it papes through the body without being diminished in quantity, a altered in quality.

As an example, of the nearly of this prenciple in surjectible, it was in this desiring me well belief the Absolute as my year observation and residing has prented it value, must practicularly. This animal well consume with consume with animal well consume with animal perfect and projectible, as central the better extraction in considerable, granting and celesis parallely through must colour this advantage of the toronter bester when they are confined to a day prevences, embaning but little of the fifther

His principle, they seek after and questly denow any such stance which contains it: and of they have accept to will injure an everland pery much, by described in the trees.

The bank of the apple tree, contains a considerable guaratity of the better principle; and is particularly reliefed by

Them— The fact is further condonated by the cocumstones, that if they are confined on a diet of yellow tur
Money, in which tittle a no bittle contactive periods, and are

not permitted to obtain it from any source, they become

small transition of and die years, for want of due vigen

in the aprimilating agains.

To extend this argument, predicated upon data derived from analogy, we are preseparity involved in Some points of a physiological character.

Alkaysh, a difference with among physiologists, with segment to the properties of chips, it is conserved by all to be the prestration element, deperated from the foods of whatever may be. The allusion above mare to the hazing of the Dather of Medicine, is supposed by some physiologists, to refer to the identity of the chipse

Sured from passers four of food - This obvious is some lists, by many among the most insurent physiologists of the sistent day; who down it a homogeneous fleried, who the offspring of healthy digstline; and only changes by a should shange in the organs to butty to that Jandsons.

On the contrary there are physiologists of kinital reputation, and described encircular in the people in, who consider the ships, a fluid sharped, according to the protien of the food taken by the animals.

The sould not gut in into a disquisition, of the Musicion of species of your seigen to these different operation. But for the Jake of our study suffered it to be a permagnesur fluid. This I may state, that the chighe it as exectained to be a highly elaborated of land, seemaking the blood, buting the self-color and a some emplois of from elaborated of the seemaking the self-color and a some emplois of from elaborated of seemaking the lange.

If the distince, that then win family of the object in health, is established, toly do promined in paciety those bodies which yield it? May it not be that nature, which does prayet in name, has fa its object,

which is you as an important with the land

The accomplishment of some wise purpose of the animal senses, are entimed by naiety and invegrated by change have may be not suppose, that the opinion of it is a suppose the caponed fatiste happose, that the caponed is supposed the caponed fatiste, may receive additional impelses on menature powers by the parious fands and combinations of food dubjected to their actions.

How immeritary would be to throw a seed the metwal adjuncts of the putation principle, and present it to
the regard of the putation principle, and present it to
the regard of desertions in its elementary from a grantity of
menthment and telestimal but the Entering as experience
has shown, or should thing princip the purposes of to
time, and decourse her established adom. The asserted of
the patient function, would be suspended by the act of
the patient function, would be suspended by the act of
these securing the agent, from the meeting of performing,
these starter which they are their preferred to perform, and deprivate them of the privatege of opiniciating, in this compresent momen, that which it prespay to the suspend of
the whole comments.

That concentrated aliment; could be administured tired

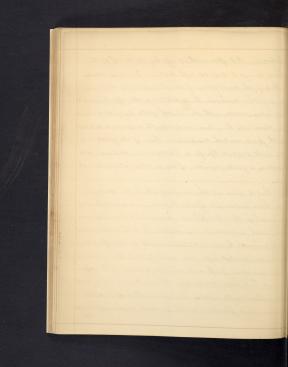
Area long, within injuring the health, is imperfelle. It due action in each organ, is required; a particular duty of appropriate to each, which in health it ought to perfected, as is be felled for the mountament of the perfect method to be felled for the mountament of the perfect method to the perfect of the dependent of the perfect of the demant condition of these argons, it is prasmable to sufferent would be sufferent to make it reasons.

The well address for further illustration; unther entiance of the indispensablench of compound hower, being presented to our organs, to be acted upon, according to their som economy but in which in instable the efficient opents is an elementary but in which in instable the efficient opents is an elementary but in which caccording to they mered analysis contains, truggen, which caccording to they mered analysis contains, truggen, with the cacording to they mered analysis contains, truggen, with this testimaneous, or description and to the health of the animal that sedfress it.

The atractphere however, is a power fulfallwent, and often charged with the wolatele parts of foreign backer

brokey and that often without affecting the hall of the hing beings it supplies with materials for perfections in But if the constitution of the atmosphere to disting to, or any other medicion he because the best total, the offers produce are in compatible, with the Beath of the being, as is shown in those who have been subjected, to corpurments, made with power who have been subjected to come of the green it is true will support top for a limited time; as some what we contain a greater proportion of veryon than atmospherical in.

But to arrive at the analogy which the example we have addressed offereds, Suppose we men to be practice, a analogy the atmessphere, a presure in any harmen, the potent air, which is indispensable to life and confine any animal to people it. What would be the effect? I should soo not be furfer from analogy, that the extense of life would be perfected from analogy, that the copination has been made, and it related was what might have been authorpoised it provides a thingle to the powers and provides to the provides and provides to the provides and provides a functions of the animal economies measures the



the excitement of the Sangueferous hystern and an expect quartity of the Supports life four times as long as atmospherical airm What the termination would be by giving the animal a constant stapply, I am not aware, having sum no experiment to ascertain the facts but are night buffere what the overall live form the preternatural state of the dystern Superinclessed.

Shaway premised that much on the scar of analogy, we arise more immediately to the guestion woods—ing the sulpert of this space of mean with argard to the comparation officery of cutows abhales found in some of swe psycholog permission; and which are conscioused the active con spectral forward of their medicinal frowers. as Guinere and Conchrision, in which resides the torico victures of harker morphic the another principle of spinon, and conclusion, in which the amorphic principle of spinon and conclus, in which the amorphic principle of spinon can be appeared.

The salifiable base of constoner, in which its outure reside, and turned quinine; was furt procured by two funch chymists, Pelleten & Coventon

a description of which Substance, was published by them, is had been dence employed extensively in some parts of the United States.

The efficiency of generic, in bone of the disertes to which the back is applicable, particularly intermittent from was sufficiently of the Print has fittedly to be equal, if not superior to the back itself. And, in the large cities, it has dupon the large cities, it has duponed the back in many of the deceases to which the latter article is adapted.

Our of the advantages of generic at least, is the concensury of administring the quantity is very any bundle for a designate for that reason probably lip afor to be reger ted, where the termach is delicate, and initially can believe to be apprepried by toking in large bulks of offer some measure. This element of books is shall to offer an example of the Whitety of chymistry to medicine and to be one of the first consequence. I am however sceptical with regard to the one bearing so generally used, as to exclude the back at-

The officing of Some madeines are inhanced begind a doubt, by combination. His is particularly the conservation the aidnew totions or Seemingly dependences ingredients, with their united adoptically, or by natural growth, particles of the

better pureples of the letter statemen and denina may be adduced as instances; both of which (octure catherling)

have their operation impaired by the logs of the bitter principle; which lop may occur in a natural way, by the ar-

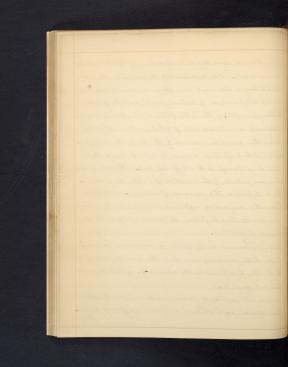
- tiels being transferred to a different doclar It's activity may be again petened, by the addition of a little as gention.

It is dapposed this increase if action properties, arises from the majorating influence of billies, upon the alimentary and and; thus highling its suspectifity to the in-

- prepion of medicine.

Parison back, pepulus a considerable quantity of the bitter principles and its vertice was supposed by the bullon, to depend on the combination of better and astronger qualities.

The outure of many predicines, are hightened by a seman with others of an entirely different nature.



May we pert infor from this pretricted anding the weight of tetlemony in farour of guine, as heirs despersed to the back itself, that in as much, as this union of previous frinciples is depolared, when which depends, in a variety of easteness, the force and vertice of the medicine, that the dame influence, operates in giving to the back that superiority as a town about it there projected. What it is so, I think is hyport a doubt; Some, we prejustice, not even of the back stilf, bullate known, was ever found expect, in its promodule powers, to the mexicons itself, in a pure saw unsurprived constituting with the

Quenieus is subject to the same puter, and sestion temp, with the back, and it prommen ded in professions from the some convenient form of each bettern, a defect to a some energetish, and spendent effect in the cure of those diseases to which it is applicable. In this incluming in its favour, proceeding from the light source it does we ful included to give all credit, and girls all our fire popepions against trived from a limited surprience and,

explained a week the and from a court of self and

and observation which has not by any means consepond with the above testimony, in farour of the extite worder consideration. I som our own enformer, we can sofely say that we have decined so such advantage from the use of Jamino, as would be calculated to establish in our extensition, its desperiority or even equality, in point of energy or promonegacy with growing back in a point of energy or promonegacy with growing back in a fact of the last we have a setal friendly to the above the second of the s

capte to dead with, whole laws are not mechanism, therefore not to be generally, ordering to whence out of capacions, butters at defeame the best bed Schemes of the skelful and preformed, and wonting wonders with the Mont donfile of uncomplecated means, that can be unaquied attention herefore any deepe of human comprehension.

Oto mediumed commoniting an inathetical price, and listle to adultication by the Society, self interested bourg who holds had gold in estimation adome the lines of his follow construct, it generally follows that a conseporating distance above takes place, to the disappoint hours

23

ment of physician and patient; the former of whom may have present the midwine werden the highest encoming bestimed upon it; not in the futtion phapelody of greathty but by the first men in the profession, whose reputition is turbaned in a measure, by the west, of the fait they promisely

I field pay little doubt, that a tractionic community some hundred dollars for pound, wenter not offer some inducement, to the distance to adultication. This is a disactionally alterday many of the high freed drugs -

The part medicinal element we come to it . Men phia; a name am farest inform the anodyne prince ple of spening.

the of centario streff, is well known to be presention of certain sugments effects supon the animal remoney; either when token in the great an amenute at a done, or by pretracted wer; and in some idealinguaries of court testion, allegather in admir pieble. This is athebuted by Magandie to a nomine pieble who is athebuted by Magandie to a nomine pieble.

The Marcotine, is dependent from the anadyn

Anodyne principle Monthia, by a proof first suggested by Me Policynets the importance of the discovery is differented But to by is the Monthia to little used? I presence it may be owing to the circumstance of the commentation of the comparation by large doce suggested; which senders it a much more back the present man costly moderance. But a sound Mone protect the present much, in the fast, that we have an agent, capable in a cortain degree of countracting the March of more aring the among the among property of opening which it she are access and it is the world sender the black doch superior it she other properties of opening, in extern contillation which shape open then were

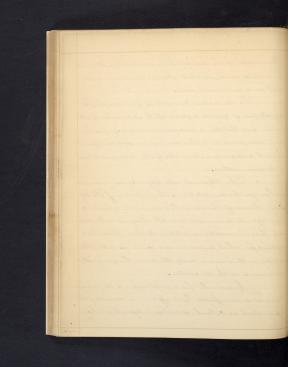
There are betweened of the articles of the Materia. Medical, popopoled of amordyna profestiles, and densed of down of those presences, attendant apon the protected are of openion and its preferantisty but are haid to be the Alast of hypocenous, tachecours to these concernitioners combined, may serve prohass to under the mapping an arbite of little note at present.

Specamenta II the last vetile in one delection, the action principle of which, we shall alternal to accurate with the am medicinal piece.

To the active principle of Specacionalia, the appellation of emetion is given; which as processed by the genetic and Polletin, is considered on article of great actionly and present so, by their own experiments on different animals and on man; and also by the Subsequent hints of memour others.

The Elymical and physiological researche of the off front special of the different of the off front Species of the alf front specials of our intentions all along, we will notice only those circumstances, relating to this medicinal matures; for which purpose we can do not no better them relate, in their own or nearly the Same language, this conference with the emelin.

Specaceanha has a relationship to the memos tipue, as is manufested by its efficacy in discasses while tipue, such as catanh, dearless, I deposit by: where its



the influence is decided. The Same politionship, was discounted in the courting by the physical researches of Magendia & Dellstown. They has that in animals to which exception discrete of construction given to as to preduce death, defection revealed the passenchyona of the lungs, and the muccas membrane of the intuitions, bughly inflamed. In smaller deces it proved an active and way effectual concilier

The happy results of comparation enperiments induced them, to by the emetion upon themselves, and, others; which they did, with consequenting assetts and ontrespectures; that the active principles in its concentrated night to be proportionably surprise in effective principles in its concentrated night to be proportionably surprise in efficacy. As peculiar powers was manifested in releving the chamic catarra of the people hosping cough of children, and other pulmens offer trees,

The dapainity of emetin as an escribio, they can added trained, and afect, that it poppers all the advantage, without the bad effects, of iperacuantage.

millerine is seasons.

that it has not the sting and massens smell of its casenanda; the tasts of the latter is accide, and disagenth emeter such a lattle bitter. The grantity of specaceanand meesfrong to produce consting in the same subject, often waves; it defends not only upon the grantity of emitting the specaceanand contains, and the grantity differs not only in the several roots designated under the general affection of specaceanands but in the mose of preparing the provider. He are obliged to carry the dose to 18 a 40 grants; when given in such large weeks to smell another or insupportable; patient of it address to the month, the symmetre stapping they have an invenience to great to some people, that they have an invenience to distable

Emelin dipolains in toutin, and operating in desert of 2 or 4 grains powerfully, can never have there sneen - wineness. Another advantage, is that if heing enabled, to animal its effect, as soon as in wish, by the siste duelies, in in the the stemsed, of a slight decertain of galls. "Swither we judge" say they "that in the practice of medicine

it will in most cases, be a prefusble substitute to ip-

The Conclusions drawn from this experiment I think necessary to state; although the facts from which they are deduced; are not all quatrie. They are no follows "yet that these exists in those species of speciacustaha must frequently in are, the analysis of which we have made known faights how the grey of the white" a feeder deductance that we have called enistin; to this is due the Medicinal section of those plants.

22 That this secletance purges, and monitor it has a specifich action upon the bury and Mureous membrane of the polished takes, and further that it propers a marked has catic power.

39 That emitin may be used; initial of ihranemanha, in all cases wherein the little is used; and the more readily as this medicine in a celectional dose, produces immunicity the same effect, which is not the case with "presenanha of bommunes; and from the very little lists and scarcely any room it disperson advantage as a midden are thicking?

That clause in the theret conclusion, which apirts the effects of emetin to be invariable; as made from the expresements of Magendie & Polleties, I believe to be erromous; for no much seine operates invariably, either by virtue of quantity or quely Specacuanha when given in small doses, with a view to its diaphoretic properties, and in some instances when com-- bined with one of our most powerfull anterneties, viz this forming what is usually termed Doners powder, will puhe? proving that a particular condition of the excitement; in an agan, will mostly the operation of our remissies, and render it necessary for us to adapt them, to the forms, and modifications of that principle, in the animal economy. which the physician has to contend with, in changing, regularly modifying te

As thunh it unnexpay to adding further examples of the says table amedies, which have had then active principles reduced to an eliminary form. They are memore, and in a physiological occumulation would involve amediable tautilogy to recount them. If the spirit of investigation continues we think

Think, we long, the whole catologue of regitable remedies, will have "guided their Secret Sources of action"

But if the tetility of consentrated asystable assessed be established by experience; and is found in our in Mance, to have their remedial powers enhanced, and the estates a Medica thereby enriched it will be Inflicted encouragement for the protecutor of that Science, is continue their researches.

It is certainly deserable to obtain own a linder deepe a latebude, in the use of the Same, a domican means as it is well known that buch is the variety of thades in Marbade concitionent, and the decangement of the animal economy, that remedies popeoping the recy have fundamental principles of action, must give place to others, modefued only by form or combination, whose spential operative frimingle is idealised.

